Rec Aug 27th
Ans Oct 4

Lemmon

J. G. Lemmon,

Sierra Valley, Cal.

Amateur Botanist, Collector in Natural History,

AND DEALER IN

SEEDS, BULBS and ROOTS of Rare California Plants.

Sierra Valley, Cal., Aug 20th 1875.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Dr. Geo. Englemann,

Dear Sir,

Promising to write you on my return from Castle Peak, here is a hurried note.

Took a longer trip than intended and consumed more time, found many fine plants in bloom (above the deep ranges,) but others were out of bloom.

Had the good luck to find in fruit one low dwarfed Abies Pattoniana (A Williamsonii.) on the peak just at the base of the lofty turrets. This is the only fruiting specimen I have seen in all my travels this season.

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Near Lapsen Peak in the north similar good fortune enabled me to get cone-bearing branches of Abies Douglasii, — the only seen this season,

But I fail to find any young plants of any species of Abies, The season is very dry, & perhaps no seeds germinated.

I have some beautiful sprays drying for you and the Centennial. None fit to send yet, Will have & wait until my return in about a month, from the Big Trees. Just off in the morning.

I did much suspecting & counting & measuring among the firs & spruces around Webber lake in answer to your close questions. Will answer all possible, soon; — All that my specimens for now do not determine.

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Perhaps I wrote too glowingly about the *Picea amabilis* in my letter; but it is such a favorite with me, I should admit however, a few of the other conifers into her presence and acknowledge their pertinence there, In fact the *Pinus monticola* and *Abies Pattoniana* often appear in beautiful groves ~~in~~ amidst the *amabilis*. often too, the latter ascend the peaks to a higher altitude, dwarfed into low bushes, such is the case on Leapen, Castle, & Clermont peaks - recently visited,

I made a wonderful omission, also, in my list of evergreens since it is so frequently met with in high, wet valleys, viz; the *Pinus contorta*, or what is taken for it.

I expect Dr. Parry will be in
the valley on my return, also
other eastern gentlemen,
Shall expect letters from you
also. Am very busy and tired
with this great effort to have
the natural products of our won-
derful country well represented, at
the great Exhibition,
On my return home you may ex-
pect a package of branches of all
the conifers of my section that
are dry. But dont expect any
flowering specimens, None were
secured of any sort, But I
have some very fine ones with
young cones, I was absent
on the desert of Nev, at
the season of flowering, in
Cal,
Hoping to be of some little
use to you and our amiable
friend I am
Yours sincerely J. G. Lemmon.

BOTANICAL GARDEN
MISSOURI
PAPERS

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Rec'd Oct 5
Ans same day

J. G. Lemmon,

Sierra Valley, Cal.

Amateur Botanist, Collector in Natural History,

AND DEALER IN

SEEDS, BULBS and ROOTS of Rare California Plants.

Sierra Valley Cal., Sept 15 1875

Dr. Geo. Englemann

My dear Dr.

Yours of Aug. 14, making renewed inquiries was forwarded to me at "Big Trees" by my friend Prof. Case.

I can understand the increase of appetite you experience. I will try to appease in part, as well as able. All your requests in regard to bark, heart-wood, twigs, &c of Coniferæ shall be attended to, in time. I am now driven to distraction, almost, to collect and prepare for shipment before the rains begin, specimens of ligneous plants of all this region for the Centennial Ex.

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I have already dispatched 2 large boxes one from Carson and the other from Reno and my return from the Big Trees,

Now I go up to Webber lake for the firs & spruces with Pinus monticola all in high regions,

These collected and packed off, then I hasten away north 70 miles for the wonderful Darlingtonia and several bulbous plants,

I will now answer some of your questions giving a list of all the Coniferæ I find in the high sierra.

List of Coniferæ

Pinus monophylla, (in Nevada) Nut Pine.
" contorta, (Bolanderi Pdlas,) Hackmatack.
Pitch, yellow & bull pine.
" ponderosa Dougl. (Englemanni) & J. Jeffrey
" Sabiniana (western foot-hills)
" Lambertiana Sugar Pine
" monticola Mountain white Pine,

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Abies Douglasi Black Spruce. large.
" Pattoniana (Williamsoni) Silver Spruce High valleys.
" or Picea amabilis (or magnifica,) Silver Fir or Red Fir.
" " grandis (or concolor,) this is the largest White "
Taxus brevifolia Yew. Big Tree grove
Torreyea Californica Nut-meg " vicinity
Sequoia gigantea Big Tree.
Libocedrus decurrens Bastard cedar.
Juniperus occidentalis Rock Juniper
" communis, Creeping "
Ephedra antisyphilitica Wahoo Tea.

I will look for the other species of Juniper you mention. I think I have noticed the distinction you mention.

Some time in early winter you may look for specimens as full as I can make them.

I am so troubled with sore eyes contracted in the alkali dust of late trips that I beg you will accept a short letter.

Sincerely Yours &c. J. G. Lemmon.

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MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Rec'd Nov 17th
Ans'd Nov 19

J. G. Lemmon,
Sierra Valley, Cal.
Amateur Botanist, Collector in Natural History,
AND DEALER IN
SEEDS, BULBS and ROOTS of Rare California Plants.

Sierra Valley Cal., Nov. 10th 1875

My dear Dr,

Hastily I have prepared some twigs for you — more foretastes of the feast in preparation for those of inquiring minds and patient spirits.

One package is a little long paper box. It contains 1st the Phoradendron with ripe seeds from the Libocedrus decurrens, which you wrote for in your last, & have more in prep. 2nd Some twigs of Amelanchier alnifolia with a fungus or other parasite thereon. 3rd twigs with its parasite of our most common Juniper. What species is it? 4th twigs of Abies Douglasii, 5th Seedlings of " grandis (concolor)

6 the Rhododendron from Oak,
7 the Abies grandis with its parasite.

The other parcel is a newspaper with green twigs of Abies grandis (concolor.) wrapped as you requested.

They are taken from a tree I cut for the Centennial Ex. It was 110 feet high, 3 ft 4 in. diameter, and 153 years old.

The twigs are taken from different places along its limbs, and one young scion from a young tree. I intended to cut a medium sized tree - say 6 feet in dia: but the time required was more than I had to spend.

Of the rest of the conifers I generally cut large trees, - one the Picea amabilis (magnifica.) required 2 men, 2 days (one with myself) to get out the section. The noble tree was 90 feet around the base and 7 feet in dia, where cut off. A lady easily waltzed around on the

r stump. I saved a good section
for you. Many good things
for you await my earliest leisure,
Still very hard at work over
the sections, scoring them down
so they will cost ℔ freight.
Unfortunately Dr. Basey writes
me that my reward must be
small hardly covering expenses.
I hoped to be of such service
that I could earn the means
of getting to the great Ex.
Now I must set my wits to
work to fill my purse with honest
earnings. Perhaps I will teach.

questions not already discussed,
I feel it a great privilege
my dear Dr, to have the attention
of so eminent a scholar to
instruct and in our noble cou-
ifera. Have thus far, I was
prevented my realizing the fact to
the full. I trust I shall ever
be most willing to assist by col-
lections one who is so able to
tell what is collected,
Hoping these seedings will
prove of interest, and promising a
royal feast with early win-
I remain,

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Rec'd Dec 8
Ans Feb 3' 1876

Sierra Valley, Nov 28, '75.

My dear Dr,

As Dr. Parry writes "Dr. Englemann is sure to secure a constant correspondence by his many !!" I am delighted to be so retained by you but have not the time to tire of such work. Glad that you are pleased with the twigs and parasites sent, (one, that of the Amelanchier you did not report.)

I have constantly noticed the difference in leaf of young Abies. Shall I get and send you specimens?

About that skull of a Negress, I know nothing of its history, but it may be genuine and it may be made up of several small ones. I judge the latter by the estimate you put upon its age — "3,000 years."

GEORGE ENGELMANN PAPERS

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I made a pilgrimage of our Co
like this season & revisited the
big tree of Calaveras Co, found
it cut by a critic of ~~it~~,
Gen Cal the great age of
God attributed to them (redwood
from Scientific elements; I was
"an over statement that I have
been stating for the last 25
years" & that three days
among the monsters convinced me
I still and estimate and I think
the Dr. entirely right. They
have been too - older reported at
twice this and that their size
I am going to produce, soon
the data and names of Scientists
will send a copy,

Now as to localities on elevation
of objects. On next page I
will give a few items,

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Plate 2 Fig 8

with [illegible] Paris. 2nd [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible]

Nov 2 Dec 8 1875

J. M.

I received for mailing to-day & will send them on and regret upon ti the [illegible] for a reason. Soon you will get Acacia and figures of Abies concolor and A. magnifica with as much of other conifers as I can get time to write, I am more hurried.

I [illegible] still busy prepared for Dr. Asa Gray. She now writes very discouragingly about [illegible]. Many [illegible] have fallen to make her, so my financial out-look either for exploring with Dr. Parry Canby or visiting the East both are very doubtful.

Sincerely Yours.

J. S. Newman.

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Rec'd Feb 10th 1876
Ans March 19

J. G. Lemmon,

Sierra Valley, Cal.

Amateur Botanist, Collector in Natural History,

AND DEALER IN

SEEDS, BULBS and ROOTS of Rare California Plants.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Sierra Valley, Cal., Jan 31st 1876.

Dear Dr. Englemann,

Dont scold but hear my excuses; — only two words, over-work & sickness, Every hour of the day and far into the night of every day is filled with intense labor, and still I am much behind hand with my centennial articles.

Had any amount of extra work over the tree specimens, then a long vexatious delay at the R. R. depot — until the money things should be prepaid for freight, &c, Then the boxes & kit all & weighing over a ton, have been thrown aside somewhere out east — perhaps, as Dr. Vasey can get no

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tidings of them,

While responding to the different demands one after another of the rail road companies, I stretched in & put up 500 large receptacles in my herbarium for plants. Doing it alone it was a long job, but so necessary that I could not distribute my plants without it, & this consumed 3 weeks, & then a large part of another was employed in putting my Coll. into their families, Another was required to select Dr. Vasey's desiderata pack them up carefully giving notes on interesting ones, and sending the big box away,

Unfortunately the heaviest snow fall of the season has stopped the box at our town and there is no telling when Dr. Vasey will get them, I have paid for expressing so as to have them go at once,

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Rec'd Feb 76

Dr. Vasey has done exactly as he agreed &, in fact has been very liberal with me, but his appropriation was so small that he sends only $200.00 in currency for my ligneous specimens & sent over $200,00 in coin for assistance and did all possible alone,

My state ought & extricate me from debt and allow me & go on & do Centennial, but a hungry pack of politicians have got the purse-strings in hand and there is no reign & dividend.

So I will start in a few days on an exploration of the southern sierra. Expect & go by public conveyance to Los Angeles, there by horse saddle &c, and proceed along the flower strewn coast, to San Bernardino near which Dr. Parry & myself will climb up and

over the Cal. alps. around Mt. Whitney, as soon as the season will allow. I hope to conclude the exploration before the hot weather of July. If able then, I will hasten away and coming back in Sept. & join Dr. Parry (who will have reached in the grand scenery of central Cal.) resting at my home, & together we will jump into my little wagon and finish the exploration northward.

Now, my dear Dr. Please excuse apparent neglect; and write me how you are pleased with my specimens. If you are in good circumstances and able to pay for services (as intimated in first letter) I shall be grateful for any assistance in my explorations. Always direct to me as before, Prof. Case attends to all my correspondence in my absence and will forward.

Yours in the love and advancement of Science, J. S. Lemmon.

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GARDEN
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Rec'd May 2'-

Address
May 5

Dan Bernardi
April 1[illegible]

My dear Dr.

As Dr. Barry writes me to send a line in his letter, I will just say a greeting with your long letter [illegible] [illegible] [illegible]

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

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Rec'd Aug 7th
Ans

San Francisco. Cal,
Aug 1st 1876.

Dr. Geo. Engelmann,

My dear dear Sir,

And just returning from my grand celebration of the Centennial year, in Southern Cal, with Dr. Parry, it has been a season of great interest to me for the good little Dr P, & lady are so good, but I am very tired out, both physically & mentally, and long for the labors of a Farm, just for a change. Had a severe siege on the way up with the hungry fever-lovers of Santa Barbara. After I had been there a month or Dr Parry came, and met them had a

rucks work to do before they would let us go. But they treated us handsomely! We never quartered among friends and no expenses will be incurred. I write all this to show you that we are all fixed for work and that it is appreciated. The state is fully alive to the University & attending now to other resources and gifts than golden sands and silvered ledges.

The New Botany will fill a deep chasm that has long mourned before us. I have had a cursory view only, of a Collection at Santa Barbara. Mine, promised by Dr. Gray does not come to hand. Dr. Parry only has the loose sheets. We have been for two days with Kellogg & Lemmon looking over plants in the Cal. Academy. I go on home to Webber Lake to-morrow.

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I, & Mrs. Parry join me there in a week. & Prof. Bolander in a fortnight then hurrah. for a grand tramp. over the mountains!

Wish you could escape from the heats of St. Louis and meet us there. The Parrys stay in the high sierra a month or so. Then up on to Colorado, with Dr. Palmer. Have seen your Quercus Kelleri sent to Parry. Wish I could have a copy too. I enclose the article and the "Big Tree" I promised you today or so. It is short out, Tell me how you find my rule for counting and estimating it apply in your experience. Will write you again probably from my old home, where you will direct hereafter.

Yours sincerely

Jos. Jepson.

Sierra Valley, Sierra Co., Cal.

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Rec'd May 2 — 18
Ans —

My dear [illegible]

Your two late letters
at hand, I am rejoiced to
hear from you again, & learned you
had dropped me out of your list
of correspondents on this coast
Have wanted much to write
& now all this winter from my
lonely abode but from pure
inability, I was almost prostrated with
several diseases, & boundary, & a
bad rheumatism & nervous de-
bility, but recovered tolerably
sufficient to do a little scientific
work — aided by a powerful mic-
roscope — a present from the
good people of Santa Barbara,
& tell you of this microscope

MISSOURI BOT
GEORGE ENGL

In that you may think of some
way in which I can aid you
with it. At the Smith & Beck
(Eng.) Compound Microscope with
12 degrees of power, from 20 dia-
meters up to 400. It was
accompanied by Carpenter's Microscope"
an most exhaustive book, and many
accessory implements, and during the
winter Baron Osten Sacken has sent
me some more from New York,
I have, as I could leave, the time
and strength, mounted several hundred
objects botanical & entomological on
glasses for leisure examination.

By the aid of the microscope I
detected the characters of a little
pest found on the Madrone, that
they were different from any publish-
ed so, and forwarded to Dr. Gray for
a name. While my letter was on
the way to him, his letter was on

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Bot
ENGI

on the way & Dr. Parry describing
the same plant, declaring it "a
great new Genus" which he
was going & dedicate to
as a reward for his devotion &
Mr. Parry, (in Gilia Parryæ) so
remember.) and also "to send
more name down to posterity along
with that of his adopted state in
which the most of his arduous
work for botany has been done." So
he names it Eschscholtzia Californica.
You must have a specimen of the
homely little thing from Dr. Parry. By
the way let me explain the want
of excellence in your plants of mine,
from Parry. They are the rulings
of the collection made for the govt
and forwarded to Wash. Dec. The lat-
ter have a steel-box of perhaps
the finest specimens that ever left
California. Being frustrated with

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a [illegible] and of [illegible] for a [illegible], by [illegible] kindly proposed to buy and sell some of his corn for me and did so, realizing for me the sum of $1/c, which will go for towards getting horses and outfit for my contemplated northern tour,

The ponies I had, went for freight [illegible] sections for Vasey, I made a nice thing out of the enterprise all expended time, and labor, capital & corn to the amount of $19 & 5, and received therefor $400, in currency; and half of that only when it was too late to find how far it would take me on the way & I did a most delightful and profitable exploration of Southern Col. with Dr. Parry, but a bilious prostration followed, from which I have suffered all winter, Nevir rage irons than my spirit has chafed against its prison bars, For 3 months I tried incessantly the gentle exercise and gradually increasing lifting accepted for recovery, and only a few weeks ago have been enabled to do any hard work, Desire is strong to explore the northern terra incognita but I may be unable, I have no comrade engaged yet, Dr. Parry has Enl, Prof. Case is engaged in University, Have not invite you, Because I feel I could not make you drive the wagon half of the time in that paradise for botanists!

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ELMANN PAPERS

2nd sheet.

Thanks for your excellent instructions and numerous "??"

I hardly think I shall be able to go so far as the Shasta region to see about Pinus Balfouriana, and the various Abies how write of Rev. Greene should have attended to that for you, May plans of exploration include the sweeping out of the eastern base of the High Sierras and contiguous portion of Nev, indicated by my former explorations (confirmed by Prof. Watson) as the richest field for novelties, May back is so badly broken that I fear that the lofty San Bernardino (11,600) will be the last of my mountain ascents, the great irregularity & pain of my heart perhaps, would prevent also, Well Lee, I may be of some use to you on conifers & oaks, parasites &c, as my eyes are directed more to the trees

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MISSOURI BOTANICAL
GEORGE ENGELMANN

than at first; therefore one ought to
the ground defeating for several rods
away the smallest weeds and tenderest
things that grow under the bushes,
as they ought to be. of the
right; All the new things I picked
up at the south except Salvia Parryi
are of this description.

Now about our Abies. I don't
see how I could have so written
as to give the size of our "amabilis"
cones as ½ – 6 inches. Truly the
mature cones are always 5 – 8 inches
long and 2½ as wide, They are
not quite so compact as "grandis,"
which, only ¼ as large, i.e. ½ as long
and broad, apple-green, flattened at
each end, bracts included &c, Our
amabilis" cones are purple until ripe
when they often become yellowish, very
obtuse at each end. bracts included &c,
as in "grandis"

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I saw in Dr. Farr's possession a few leaves of the original arnabilis from Kew, and I fully conclude with you that they were from a species that must be entirely distinct. Those leaves were ½ inches long, about a line wide, simple on both sides and twisted at base.

If you have any specimens yet you know that ours are widely different. In the twisting of the leaves and their tenuity the Kew arnabilis resembles our "grandis" but the latter is generally othered beneath. I have only been able to send you seedlings of "grandis" being away from the vicinity of the "arnabilis" grove when you called for seedlings. I sent you seeds of all our conifers I think, in that box by express if I thought that you might represent them in your greenhouses. Yours

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to able to make characters without possibility of error; the grooves are filled with snow yet; I climbed up to one of them recently to see if I could measure, count rings &c., of the stumps & cut trees from 3 years ago but all were covered out of sight, the snow is fast going now. & before I go down (in a few days) I will try for seedlings. &c.

Do you not find the "grandis" specimens I sent you with some of the leaves silver underneath! Do common is it in the natural tree that "silver fir" is applied to it as often as to the "amabilis." To the common observer the principal difference is the bark and cones.

Your name of "concolor" if the above is correct, is not so well taken as "magnifica" for our red fir, that is a splendid name & fittingly describes one of the most interesting of trees.

I was pleased with the admiration expressed by Dr. Parry when I guided him to a grove. "C," said he "You must try to investigate Dr. Engelmann's last here to see these magnificent trees! How beautiful! How symmetrical!" &c.

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GARDEN
FAITH

3rd Sheet.

7° want to discuss another feature of our "amabilis" that has puzzled me exceedingly. (Some of the trees will resemble "grandis" so much in foliage that only a near view will reveal the differences). The bark when the trees are young, is the smoothest of fact! to base differences upon.

Again some of the firs, upon topped trees will present widely different appearances. This I noticed more frequently down southward in the vicinity of the Big Trees of Cal- (Mt Lyell Peak) averas & Yo-Semite, there there is but little diversity, all generally dark-green leaved, with, (most) scattered under surface. Southward two trees will be found interlacing their boughs, the sort one tree green, concolored with dense slightly irregular branchlets; the other

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MISSOURI
GEORGE

shining like silver, its top more
open, leaves shorter and scattered
around the branch, (but always turning
upward,) while the cones grow both
and back
are undistinguishable, (except the two
jumped out of the wagon and cut
into two such trees with my hatchet
proves believing there must be a
specific difference). I stated
above that the cones were undistinguishable. I should say that they
were so up to Sept. 15th not
quite fully ripe. When in that
station last year fully intent upon
studying the differences of fruit, &c.
there was used upon either hand,
Only one tree with any trouble
that year was seen with fruit, & cones,
& cut that down & sent the cone
& leaves. They were very poor
specimens, worm eaten deformed, &
shriveled with pitch, not half mature

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symmetrical cones of the Standley,

Now it is probable that I have the Abies basiocarpa mixed in with "grandis" & "amabilis". I never had a word of description before of the A. basio, & never noticed the ends of the leaves. "Pacific coast" put "amabilis" as well,

I've never seen A. nobilis at least, never in print. The "protruding bracts" would certainly take my eye.

What will you do with Rosey's A. macrocarpa? I found cones on the base of San Bernard, over a foot long! But the tree looks every way like our A. Doug. here,

Another A. high on its mountains. Here I could not distinguish (May 2nd) from our "grandis". Its same tall tree, with grey bark, and irregular limbs, & got, & obtained cones (3 in. long) on prepared specimens of foliage. Is this Vas? Do you want one? Do

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GEORGE ENGELMANN PA

flowers of A macro. I sent ye
from Crafton. were empty I believe
ye saw reported. I have a
very enthusiastic friend in this
city of Dear Bor, that is all
aroused on botany (was run a
pension A the peak.) and picks up
items with great care. I told you
in my items or specimens of the
to of the section you have
but to pick A him. Dr. G. Knight
of Dan Riordine City, Jo has
been collecting plants all winter and sending
them A me for determination, Jo
tooks an observation on the transit
of Vulcan that is deemed of such
merit that it is printed at Washing-
ton printer at Paris, Jo is
going from Juneau to Alaska a still
higher peak. The top truly alpine, treeless,
If you desire it I am sowing
the silvery fir I observed so abu-
with the green one down near the
Big Trees apply to F. V. Blood

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Bro Geo. J. C. Calaveras Co, sent pretty close descriptions. He is not a naturalist but a clever fellow. There are no Cedars in this [illegible] walking so I see not how I can get any of the Arcenothrium Wrightii this winter as I wished. I presume Dr. Parry has sent you several Euphorbias & our Salt [illegible], for determination.

I have lately read over, pamphlet on Cuba, Extraordinary as it seems I cannot find any low, bushy oak with large acorn and hyrcate leaves, that I gathered twigs of near the Big Tree, & sent you, so knowingly in the box

Mr Bolander writes for more specimens of willows. Prof. Eaton for ferns, while Profs Gray & Watson spur me on to obtain more shells & minerals, the terra incognita, C. for health! Never was botany more charming, and, with the helps at hand now, how interesting it is to decipher [illegible].

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When your 2nd vol. Bot. Cal. is published upon which you are all so diligently at work, if I am alive, I mean to publish a Catalogue of plants of the Sierra, their locality & habitat for information of parties abroad, and especially & [illegible] the eyes of persons desiring Cal. plants or seeds, who may not be able or have not the enterprise to purchase the larger Cal. Bot.

I have lately written a description of Yosemite Scenery & its Attractions and given a sketch of the Hotels & appurtenances (from a position out on the rise) that the Rural editor says will cost $100, & have engraved, Dr. Fisher will of course furnish the cuts.

I send you a copy, when published,

I must tell you Dr. of another botanical puzzle. Why have botanists dropped the distinctions between Pinus & Abies, so natural, so universal. They seem so wide apart to the unscientific mind; the scattered limbs persistent cones &c of the one and the symmetrically whorled limbs & deciduous cone scales of the other seem very important,

I wish that you in our Botany would throw [illegible] as you know the authority & reasons for it, & also the name of Picea,

as I am getting even with you on "i, ?" it is time to stop

[illegible] ashes terribly by the effort — all in writing even this. Please excuse errors,

Yours sincerely

J. G. Lemmon,

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Rec'd July 16th
Ans'd July 30th
Letter of July 15 sent to Gray

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Sierra Valley, Cal.
July 7th 1877.

My dear Dr. Engelmann,

As I cannot reach Dr. Gray in time, I enclose a letter to you for him. I hope you will join him and come and see for yourself these glorious Cal. forests, about which you ask so many questions.

Please accept an earnest invitation from me to come on with the distinguished Dr. Gray and Sir Joseph Hooker. I have invited Dr Parry also.

Come to Visalia Tulare and the High Sierra. Much of the flora will still be in bloom

and its Coniferæ with half
grown cones, in August,
I enclose the Webber Hotel
Card, to guide your entrance
into Truckee, the R. R. depot
for tourists. Should you
arrive on an off day
you can take a pleasant
day's view of the wonderful
Tahoe, then come on to
the beautiful little Webber,
Please keep me advised of
your movements, so that I
may meet you,
Hoping that my eyes may
behold the chief botanists of
both hemispheres, I remain
Yours sincerely,
F. G. Dermon,

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Rec Aug 17
ans AC 8/30

Sierra Valley, Cal, Aug 8, 1880.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

My dear Dr,

Instead of yourself, here comes your favor of the 30th ult, bearing the usual questioning character, & deeply regret that you are not with the botanical party. I wished to see you here, to be near you when first you looked up the trunk of Abies magnifica, & contemplated its splendid foliage).

But it seems you must delay your visit here til another time, No matter, you shall have a special reception at Webber Lake, when you do come. Ice-cream & lemonade are cheap there because the snow is so near, then bouquets and cool groves are at hand, enough to satiate even a botanist.

I'm sorry you could give me so little concerning the movements of Hooker & Gray, I get not a line yet, since leaving Cambridge. Of course Dr. Gray will write me when I need

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information but situated as I am rules would not bid anxious and importunate? I'm at a loss to know how to behave in the presence of the Adams of our beautiful science. Do you stand on one foot or on your head, when first presented?

I am in receipt of a letter from good Dr Parry giving items of the reception at Cambridge. He kindly introduced the attractions of a visit to the high sierra early in the interview and at Hooker's request placed a copy of Webber Lake into his hands. He Dr. further states that the intention was fully espoused to give me a good visit; and that they would arrive early in Aug, instead of "late" as at first proposed. So I am looking for them any day. I'm prepared with a 4 horse stage & splendid team & careful driver, with which to convey them where they wish. I hope they will let me conduct them to some of the wonderful scenery & flora here, Meadow Lake, Washoula-val, American valley, Butterfly val, & the Darlingtonia. Only 60 miles to the latter in abundance! Now

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dont you wish you were with them!, I hoped Dr. Parry, as well, was along, Never mind he shall have a reception at any future time, and the host of friends he found will help me), I shall be easy to find, hereafter, Dr. Webber is going to build me a cottage at the lake, where I will spend the heated term of each year, There I can greet and visit my friends at pleasure,

I mean that my home shall be the rendezvous of naturalists, Come & help me dedicate it about next 4th July,

A letter from Baron Osten-Sacken in London shows that he is still hard at work upon American diptera, He going to examine the collections in Paris, Berlin; Vienna &c, then publish a synonymical description of the whole sub-order, —perhaps his last of the kind, He had received my papers on Webber Lake and liked the articles, much, What a close student and observer he is! There is an example of a genius who is bound to know all that may be known in a special field, though he leaves, wealth, honors, position and the world itself behind,

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Thank, I've plotted away all this time & kept you away from that great oak-bush, Beg pardon, Now for it, When I went down to the Big Tree grove to get specimens of the odd things there for the Cent, Ex., I proceeded below about 2 miles on the hunt for Zauschneria Cal, On this hunt I came upon the scrub oak, It at once chained my eye by its beauty, its profusion of large leaves and large acorns, I hope several twigs sending all away, either to you or Dr. Vasey, My recollection of the plant is that it was a dense undergrowth of straggling, robust, grayish bushes, occupying the bottom of a shallow grass-dotted ravine, about elliptical in shape (the grove of bushes) 2 rods wide in the center & 6 rods long, This may be much too large a patch, I'm not positive, The grove is on the south side of the road, the ravine leads down perhaps 2,000 feet to the Tuolumne river, about 3 miles distant, Elevation of the grove about 2,000 feet, Time of visit (Sept, 4, '75, Height of bushes that were bearing, 2 to 6 feet, Leaves & twigs trimmed by sheep, —the curse of botanists—, Flora may be large general trunks but I think not, at least above ground, Have just returned from a tour along the desert rim as far as Susanville, Had to retreat to the cool Sierra, So very hot, Returned through new scenes in the Sierra, Saw no scrub oak of either kind, If the new one is "scattered along from Calaveras to Shasta" it must be on the west side of the Sierras, Singular how it hides!

Very sincerely yours &c, J. G. Lemmon,

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MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

I shall be glad to get your revision of the Oaks,

Rec Oct 24'

Sierra Valley, Cal. Oct. 16, '77.

My dear Dr,

Your favor of the 8th inst, catches me just on the eve of departure to Mt. Shasta valley 20 miles distant in search of Libocedrus Abies magnifica. — Truly named! (But I gave up "amabilis" with sad sighs.)

There are but few cones and turning of the spruces & firs of this locality and as collecting brings me any only recreation I've been as busy as strength would permit — and still have but a few seed, &c, and the weather threatens snow & storm,

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Do you know John H
Morse, M. D., one of the best
men in Cal, & did when he
was a cute boy & edited
a sharp little paper at Ann
Arbor, I know since met
him in the Grand Lodge of
Odd Fellows but as he was
very busy & did not intrude,
It appears he reads the
Rural & told you of my
last article - "Two days with
Hooker & Gray," & that you com-
pliment me by asking a copy.
You will find a correctat one
enclosed, which please read and
criticise. I like comments
from my friends. They help to
prune out errors of style and
of fact as well, & I should
have sent you a copy before
but as the editor of the Botanical

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Gonzalo al Fraser, Ked, has asked me for a copy to re-print, I thought you would soon see it here.

It had a glorious time, of course! through all its ~~Arms~~ while very stupid from head-ache & lack of sleep, caused by ca-tarrh, happily, cracked entirely now. But I was thoroughly afraid of the great-men, and constantly stammered in dis-cussing the most familiar plant.

They talked with me about the variability of Abies bracts, I stoutly denied seeing any exserted bracts on mature cones of our two Balsams,

Appreciating that you may not have seen all my sendings in the Conifer line, I'm sorry, I feel sorry, and will still send you

specimens of Abies I have just prepared; cones & sprays. The cones are carefully tied up so as to keep natural shape, flowers, (male) on the sprays too. Would you like them?

Dr Gray declared that my scrub oak from Calaveras was abundant near Shasta,

What will you do with the Abies macrocarpa of Dr. Vasey?

Dr Parry & I found it quite frequent on the San Bernardino Mts, & took specimens, I think, The tree certainly looks different; is unsymmetrical, lop-sided, dwarfed, with dark-ish bark, and then such an abundance of large, thick, tough cones!, lying 2 to 4 deep under the trees & rolling down the slopes. I have not seen A. mobilis (nor the true A. amabilis), so can take neither side in the contest between you & Gray, but I think it as well to give us specific names for widely different & generally accepted kinds of trees, & go — for separating species as I did for separating the genera — Abies & Picea.

Yours faithfully — S. B. Parsons.

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GEORGE ENGELMANN PAPERS

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GEORGE ENGELMANN PAPERS
MISSOURI BOTANICAL GARDEN

Alameda, Cal, Mar 28, '78,

My dear friend Nanny Starks for your long instructive letter & the pamphlets. I will study all well & try to hold you in the difficult and Starkleap work. How you make the feathers fly! Poor Arabilis! And do you mean to say there are only 5 species of pines! or only do your group them into 5 sections? How can you group P. Ponderosa, insignis & Contorta together! Why the bark of Contorta is totally unlike, let alone other peculiarities. Really you masters in science almost render the great Master superfluous. I am lecturing in the great city on Ca. Conifers & wish I was posted! O, how little we know here! Excuse writing Yours &c, J. G. Lemmon.

POSTAL CARD.

U.S. POSTAGE ONE CENT

WRITE THE ADDRESS ON THIS SIDE—THE MESSAGE ON THE OTHER

RECEIVED 7 P.M. 6 APR ST. LOUIS, MO.

Geo. Engelmann,
(Botanist.)
Locust-St.,
St. Louis,
Mo.

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GEORGE ENGELMANN PAPERS / MISS

Am lecturing before the High Schools of the city upon Cal. Conifers. What impudence! Do you get the Pacific Rural? Last article of mine "Darlingtonia" March 23,

Rec April 9th
Ans same by Alameda, Cal, Apr. 2 '22

My dear Dr. Engelmann

Your grand letter of instruction of the 21 ult. just in. Many thanks. How helpful you are my dear friend!

Too hurried now for detailed replies.

Yes Hooker & Gray were too hurried, they could not examine enough.

The Juniper they saw on the side of Mt. Standford was what you have always called for me, the occidentalis - (hard, dry fruit &c.) not "1000"!!! & was probably 400. or 500 years old. In examining limbs of trees to guess at ages I always look to see whether the limb may not be quite as old as the main trunk, - as in the Junipers,

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Verily there's much in the remark you make about the limited advantages of your "closet students" O dear! I wish you had my opportunities! Those added to your trained perceptives would make you formidable! The very inception of divine ideas before their expression in organic forms I believe would be revealed.

I am forcibly convinced of the meagerness of materials furnished the "closet students" by the correspondence I have lately had with Prof. Watson concerning our renowned Crocodaftne,

She wrote in the winter for specimens of fertile flowers — stating that those near East were all of the sterile sort, on the grounds of the University I collected some here, with apparently perfect organs — the pistils enlarging & berries — but he replied — "Many thanks for your attempt" &c, I then collected anew more advanced specimens. "No go" again,

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Three days ago I received a letter stating what to look for. "The fertile flower is either on a separate tree or on different limbs & removed, is always solitary axillary & a leaf, with a short, thickened peduncle." So was the instruction given.

Now I am convinced after visiting several groves & examining hundreds of trees & all states & ages, that,—

Proof of these

1, The flowers are hermaphrodite & perfect,

2, They are in umbels, axillary or terminal,

3, The fruit mainly aborts, but quite often 2 & 3 mature in an umbel,

4, The peduncle is often long—1 inch or more, slender, & curved, and is always articulated with others at a half-way place—the base of the umbel,

5, All the trees bear or may bear fruit.

Last fall, I despatched specimens clearly proving all these convictions. Is it not singular that such misconceptions could exist so long about so common a tree?

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MISSOURI BOTANICAL GARDEN, ST. LOUIS
GEORGE ENGELMANN PAPERS

((of course the sweet large-berried (blue) Juniper (10 to 20 feet), is a wide-branching shrub, only x grows in Southern Cal, but a J. in New Mex. puzzles me some as I think of it for its form quite equal an trunk, not tapering x grows near Pyramid Lake, Will try & visit it this summer,

Talking with John Muir yesterday, he declares his belief, that Abies nobilis & magnifica are one, has seen bracts in all stages of expansion. I have not, Never saw expanded bracts scales — so never met with nobilis, but this may be accounted for by absence from the fir forests of the right time x by their bearing generally, but on every other year. Will reach nobilis region this summer. Sir Joseph is in error about the timber of magnifica being worthless. It is much manufactured x used for sheltered works, &c, strength of course decaying sooner than pine x spruce;

Wish you did not have to go to prep with Bot. Cal. until after this season. I could help you to settle so many knotty points. When is your "copy" required? Perhaps I can write to friends scattered over the state x get information soon. Command me in all things

Sincerely J G Lemmon

Acc March 16
Ans same day

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Alameda, Cal,
March 6, 1878.

Dr. Geo. Engelmann,

My dear friend,

Not expecting to stay here long I leave neglect to write you, so as lose not the benefit of your helpful letters all winter,

Here am I in this delightful suburb of the great city studying botany by the aid of the collections of the Acad. of Sciences. I stay until Apr. 25, then accompany Dr. Dio Lewis on a summer campaign in the Sierras, as botanist under a small salary, I go principally for the recovery of health. Home

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catarrh terribly, that is it threatens to be terrible, not destructive & offensive yet—, but very painful and distracting,

Have lately undertaken to lecture before scientific societies. Get along surprisingly well, Believe I could rouse the mind by it that might puff me on to Washington yet, & see what-is left of the Cent,

One of my Essays was upon "Cal. Conifers" in which I was greatly assisted by your late contributions. "The Firs" & "Pinus". Have you published anything else?, Do you know how & prize all your words & will you not always send me copies of publications!

You see I am turning your "???" around, Firs are a few of importance,

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1 Is George Gordon, A., Le, C.,
of Eng. author of "Pinetum"
a reliable authority? (I see
he still (1875,) holds to Picea
for the fire &c, and regards Pi-
nus Balfouriana as probably a stunted
form of P. muricata. Is it
not a form of P. contorta?)

2. Who is the best European
authority on the Gymnosperms?

3. Can you, without much trouble,
give me a Conspectus of all the
Gym. that reach the Pacific states?
(I wish it soon as possible for
a lecture I am building to travel on,)

4. Will you please place J. P. Moore
of San Rafael, Cal, upon your list
of worthy & efficient workers, and
send him your publications from
time to time? (By earnest request,)

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Please let me know if I can be of use to Sereno on this contemplated tour,

We reach Yosemite in May. Tahoe in June, Sierra val, in July. Lassen in Aug, Shasta in Sept &c,

It seems Hooker & Gray (with you) did not succeed in crushing Abies mobilis, sub-alpina and magnifica into one species,

Do you allow Picea macrocarpa?, or only P. Doug, var, ?

I must never lose hold of you so long again, it's just starving. Please send me all your articles I have not the ones on "Abies," nor "Juniperus." Only borrow them from the Acad.

Yours sincerely J.G. Lemmon

MISSOURI BOTANICAL GARDEN

GEORGE ENGELMANN PAPERS

Ans Mar 19
Ans — 21

Alameda, Cal,
Mar. 10th 1878,

My dear Patron,

Your Card at hand, My Circular (or rather Dio Lewis) has reached you ere this, so you will know where I'll be this summer,

What shall I collect for you? Are there any obscure points I can assist in settling?

I'm glad you will send me botanical articles,

I found at the Acad. of Sciences in S. F. your "Fir" Compiled and "Juniper", just in time to help out a lecture I was

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Dear Darling,

I've written you lately asking you lots of (??)
Hope to receive answers soon, as I have agreed to repeat my lecture, & no one knows better than I do, its want of completeness, of persons You ask for names, & names send you articles,

J. P. Moore

San Rafael, Cal,
Miss Sara. A. Plummer,
Santa Barbara, Cal,
Mrs M. E. P. Ames,
Auburn, Cal,
Mrs R. M. Austin
Crescent Mills
Plumas Co, Cal,

I am not entirely satisfied with all the crushing determination of your "Aides" monograph, Alas poor Humability Tossed about for 40 years & now cruelly thrown overboard, 2 & 2 vars, of A, magnifica are not discriminated, and they?

Yours, &c L. F. Lemmon

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

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Rec Nov 29th
Ans same day

Sierra Valley, Cal., Nov. 20, '78

My dear Engelmann,

Have you given me up for lost? I have been almost so. Long hard work often & spell for dry & frost-killed from Santa Barbara & to Benicia, overland, and but few new things. (one new genus, however) and but little time to study trees, I never expected to write again! Shower me from a more irritable acid, like H. O. Ford!

Since coming home (Oct.) I have been busy, with delayed letters & friendly calls, & the writing a series of "Notes" for the Rural and "Guide of Cal" for my local press which (after I have corrected and) I enclose herewith for comments & additions.

You will see by a glance at it how limited is our knowledge of trees, & how little that is known

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I am enclosing some Arceuthobium and I send you a Arceuthobium growing on Pinus Contorta in Little Kern Canada valley, I have waited for the Douglasii to ripen articles for a cause to address you, I dont want to lose you, I am now at home about 20 miles from my boarding house, studying in the hope of getting myself for work as forest ranger under Gifford Pinchot

Can I ask now to speak a good word for me? In Botany I must live (of starve, perhaps;) as I am unable for physical labor & not talent for business,

I will, collect for flowers of the Arceuthobium on Libocedrus & will report,

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Now Lord in my travels have I met with fir cones with recurved bracts, not know Picea Hookeriana,

I send with the package of Arceuthobi two cones of a fir in Kern valley remarkable for length — as much longer than any cones of the A. Concolor I ever saw;

Bark of the tree seemed to be A concolor, limbs too high to reach (company would not wait,)

Please examine my articles, correct and return as soon as I wish to submit them to the Pacific Rural, for publication if you do not like them all to pieces, Have you any botanical books to spare me? I will pay for them,

Yours Sincerely J. G. Lemmon,

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MISSOURI BOTANICAL GARDEN ENGELMANN PAPERS

I, D, I have written to a friend in S. F. to know about the giant tree map you have heard of in an exhibition there, & will report when I hear. Can you help me to supply myself with works of standard merit on botany. I will pay for such things as long as I can borrow, and I need books very much. Don't I?!

Sierra Valley, Dec. 1, '76

Rec'd Dec 16
ans Dec 27

My dear friend & patron,

Your good long letter with my Conifer articles arrives and what a scorching I get! Serves me right. How can one know or say anything on botanical subjects without out a library like Prof. Bolander's.

Newspaper proprietors are very tenacious & often overcome me against my better judgment. However I cannot

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[illegible] without depending
my position as best I can, I
looking up the subject of Conifers
last winter, & had access to the
new books of the Acad. of Science
bearing on the subject, and either I
did not find, or I did not notice
anything that prevented the term "Gym-
iper" from being as wide as Gymnosperm
Gray's Class Book of Bot., under Orders
III Coniferæ, gives three Sub-orders
the Pine, Cypress & Yew families,
Prof. Wood under Cohort No 4 says
the Class Gymnospermæ constitutes the
Coniferæ, The gives 3 Orders
(including Cycads)
Pines, Yew & Cycad families,

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Now I never have seen the fruit of the Gymnos - so dont know about it; but I have seen and studied the fruit of the only other order of plants that could learn of that belonged to the Gymnos. — the Gnetaceæ, and that is as good a cone as any Gymnos cone. I thought it no great violation of terms to call a galbulus (a modified cone), as indeed Gray and all the other authorities, noticed, do. Excuse my error. Please tell me in your next the limits of the Coniferæ, and also when Gray ceased to include the Juniperæ in Coniferæ.

Of course I dont regard Prof. Wood as authority. I only noticed that he agreed.

All the other criticisms I accept with bowed head and deep gratitude, only are very helpful. I told you that I was ashamed to let you have my articles to see how little I knew. And I wanted to know, hence my sending to highest source.

I have not collected either of the Gardens in Cal, but I presume that they reach our border, I cannot draw any lines, for the life of me between the Pinus ponderosa and its varieties, You can pick me ones in any grove of all sizes, I defy any one to tell what kind of a [illegible] by any of the features of this tree, The points you wish about the [illegible] contorta I will attend to this winter, Hope you have read my Rockies & Green Mts & Cones etc this, Yours &c, J. G. Lemmon

BOTANICAL ENGELMANN PAPERS
MISSOURI
GEORGE

Rec Dec 24
" 27

Sierra Valley, Cal, Dec 15, '75,

My dear Engelmann,

Your favor of the 2nd d
ins. Sorry my specimens sent were not
more interesting. The fine berg with Arcenthobi-
um colo. est in upper Yo Semite Aug, 15, '73 I
never saw a parasite upon the ? coniferæ before, so
thought it a wonder, And no where else have
I seen such large cones of A. concolor. I keep
in mind all your requests in regard to trees. You
may depend upon notes in time. I have prepared a
Catalogue of New & Rare Plants of Cal, & Oreg. and
sent it East for Publication. I will send you a copy,
in it you can mark desiderata.

Yours sincerely, J G Lemmon,

POSTAL CARD.

WRITE THE ADDRESS ON THIS SIDE—THE MESSAGE ON THE OTHER.

U.S. POSTAGE ONE CENT

DEC 28 1878
SIERRA CO. CAL.

Dr. Geo. Engelmann
Botanist
Saint Louis
Mo.

3003,
Locust St.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

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MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Rec July 4th

Alameda, June 25, '79.

Dear friend.

Yours relating to the old subject of Abies has overtaken me here.

In the Sierra I have met with only two firs. the subalpine bark red (concolor.) and the red-barked (magnifica.)

Of these I have sent specimens & notes submitted. I can add nothing more of interest on them.

But down in the San Bernardino Mts I saw last week a fir in fruit (inaccessible) resembling the subalpine fir, but the leaves short & more not truncated at base!

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I was terribly tired from climbing a bold, rocky peak 12,600 feet high, requiring a pilgrimage of 3 days to reach.

The trees were on a sleep decline below me. My comrade was sick & in danger of fainting, so I could not stop, on the narrow trail. Besides I was sure that other trees were ahead more approachable.

Alas! I missed getting specimens and the thought that here was a new & unused cone of the Abies mysterica now gives me great pain.

My pass expires soon & I have decided agreed to join Gen Redding to-morrow for Shasta.

O that I had only dismounted tired as I was, and driven my stick into the

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bark of that tree! Climbing for the cones was impossible but I could have brought away twigs; but I expected better specimens — as I said. Certain

Possibly I can get a friend of mine down there to go and get cones twigs & bark. but he is a business man & will dislike to go 30 miles up a rocky road and finally up a dangerous trail all for science.

I took more notes on the Tsuga macrocarpa. I think more positively than ever that it must be distinct. A frost had killed all the cones in the cañons visited, so I have missed, but the tree is so different in habit & appearance. It sprouts about in a one-

sided. Honesty may, it is so
greatly, often as I let it take
& bring it more prolific in
fruits. Perhaps there is no
longer any question for this so
late the tree fruits.

Yes I collected the female & fe-
male specimens of the cedar mis-
tletoe together, on the same tree
the former year. I think I
sent with the rest a specimen
branch that I found on under the
tree. But I took pains to se-
lect & forward about 9 bulbous,
and afterward to you.

I expect to be about Alaska
for a few days this week
here & there with

MISSOURI BOTANICAL GARDEN
ENGELMANN PAPERS

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MISSOURI BOTANICAL
GEORGE ENGELMANN

Rec July 25
Ans — 30

Wizon's Station, [illegible]
Mt Shasta, July 21, '75

My dear Dr

Your letter and subsequent Postal Card after following me for five weeks about the state, came up me here, where I have made a halt for a fortnight.

In the letter you ask (as usual) several questions about Abies, which in the postal, you say are answered by my descriptions printed last winter.

But if you wish for specimens or further

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notes, please write out d'
until and on from my
home to which I return
soon in a few days &
I must at this time
to start a little differ
early.

I do not find the
magic-lantern sound such
a problem, but that you
may (Prof. Bremer tells me)
and I going all along
here. I mean the
one with large round
glass eyes for the
Big Tree gate. Otherwise,
But there is a little
beautiful small oil
lamp of which I send photo
in and the little small, that
pictures one, (I have
not seen real article here)

[illegible] clothes the ground
on a cushion like tuft
like on a [illegible] of soft
[illegible] an abundance of soft
[illegible] [illegible]
on [illegible] [illegible]
example, [illegible] [illegible]
[illegible] [illegible] [illegible]
more [illegible] soft.
[illegible] [illegible] [illegible] found
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
flora but [illegible] it is
[illegible]?
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]
[illegible] [illegible] [illegible]

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Acc? Cambridge Aug 19
Aug

J. G. LEMMON,

Sierra Valley, California,

Amateur Botanist, Lecturer, Microscopist and Collector in Natural History,

—AND DEALER IN—

Seeds, Bulbs, Roots and Dried Specimens of Rare California Plants;

—ALSO AGENT FOR—

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Sierra Valley, Cal., Aug 8, 1879

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

My dear Dr.

Your long & interesting favor of (date not given) is at hand, and I must give you full credit for a strenuous effort to avoid directly the use of several ? ? ? " However on the last page several would creep in so I had a characteristic letter after all.

And being cooped up in my herbarium, half-sick I am resolved to devote the day to science, i.e., as much of it as is ably represented by Dr. Geo. Engelmann.

Shasta.

So here goes for a visit to

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The forest about Shasta as all botanists agree, is very interesting from its variety and accessibility. but not so always in the latter item. in regard to getting printing specimens.

During my late sojourn at Sisson I vainly tried to get complete specimens of all the Gymnosperms. Especially the firs baffled me. Very few trees bore cones. On the high plateau, about the immediate base of Shasta, grows thousands of square miles of a red fir which Sisson declares is Abies with exsert bracts. I saw not more than a dozen cones in all scattered about mostly singly & in the tops of large trees,

I struck my botanical pick into hundreds of trees & struck the bark in every case was like the specimen sent by this mail, (No 6) Nor. Silpon tinks, both exserted & concealed breasts may be found on same tree. they are certainly in same groves, I dont make amounts, No 5, of a tree from center of this high plateau,

At another grove on a lower alt. (perhaps 1,000 ft: I found an upturned tree (red-barked) & obtained the specimen (delayed in growth,) No. 6.

You ask Why did you not get old cones, bracts &c of the firs? It is impossible my dear Sir, at least I could not find them.

Do I have settled nothing in my mind about the red firs Abiles ✕ Magnifica of the high plateau, that have a cone more to large & brittle below to climb, and I was too weak from the heat to think of felling one - if the means were at hand as they decidedly were not,

In a grove 20 miles or more to the west of Shasta and comprising the highest (or last) timber on a certain peak, I found a bearing tree that I could climb & secured the specimens No 5, (Jul. 20)

Knowing that Hooker & Gray had visited this region to study trees especially as also previously, Brewer, Bolander & others, caused me to be less diligent, and determined than I should have been. (I see now by your questions.)

But perhaps, you will allow that I have done better with the pines, for I knew Hooker & Gray did not climb when I did.

(See next sheet)

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MISSOURI BOTANICAL GARDEN PAPERS

Sun Aug 19 1866

2nd Sheet.

The last pine to try to live in the alpine region of Shasta was a depressed stemmed species without cones which on other peaks I found bearing & which I called

Pinus albicaulis (No 2.)

This is the species Lyon visited, was called Flexilis by all botanists who visited the region; I made long detours while my party rested, in vain search for other pines. Only P. monticola (No 3) and this sterile, struggling half dead P. albicaulis, was found.

But on Scott mountain several days afterward. (July 12th I found a rich field & 2 days revisited my guide and explored the region for 2 days.

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The morning of our arrival
in a valley enclosing the first
springs of the N. fork of the
Sacramento and at the base of
Scott (or Eddy) mountain about 20 miles N. of Shasta
guide wished me to go over
a high ridge with him & be
in waiting that two deer which
he had killed the evening before.
were really bucks, but I had
taken cold in the dense of the
morning and was coughing vi-
olently. I could see at a dis-
tance a dark belt of timber
along the gray-side of Scott.
strongly contrasting with the
lighter color of pines below &
above this belt. I told the
guide that we must first for
that forest must be explored as
soon as I was able.

By noon I reached the belt

and was amazed at the beautiful trees composing it. (Specimen No.)

The ground was a gray sand, flintered & deeply inclined, so that climbing was difficult & fatiguing. The trees at a distance I declared must be Picea Williamsoni, so long and pendent were the upper limbs. But no. It was a pine and of a species I had never seen! The trees were rather stunted, apparently. Inclined fast upward, the latter probably not over 50 feet, but I soon during the day some that were 5 & 6 feet in diameter, reddish brown

Bark, finely & deeply furrowed in a general longitudinal direction.

The trees nearly every one had cones mostly singly depending from the ends of every thrifty branch.

Abundance of cones lay under them also - denoting a constant decay,

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The cones were of a dark pur-
ple color always, sometimes glaucous
& shining. ~~Leaves~~ & stouter than
very large & forward for the sea-
son. The leaves were the short-
est and thickest of any pine I
ever saw. They clothed the
branchlets like a fox-tail, for
one to two feet; and were of
a strikingly dark, apple green.

The outer bark has been described
The inner was white very like
Pinus monticola: The trees were
never found growing thickly together
but always singly & usually at
a distance of several rods from
each other.

Below this belt (itself a mile
wide) were scattered many trees
of the beautiful, large P. monticola
(No 3) with P. ponderosa com-
mencing down & in the valley,
Above, fringing the forest of No
1, with reaching & the snow was
the most most interesting Pine (No 2,

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GEORGE ENGELMANN PAPERS
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Missouri Botanical Garden
George Engelmann Papers

1 — 3rd Sheet.

As stated, fringing the No. 1, (Deformis flexilis?) on the upper side more scattering, depressed trees of lighter green, longer & thinner leaves, and small, ovate cones, with pointed scales, very unlike No 1. The last or young branches are erect, and white, as revealed by sections left bare of leaves. Leaves more decidedly tufted and spreading, often giving the appearance of a small round broom, spined at the end, and a series of spined tufts forming layers back along the bundle; thus,

I noticed that however depressed by winter snows the young shoots always tried to elevate; the cones more few, & but few vestiges of old ones were found, & these gnawed by squirrels.

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In the lower region of this species the tree often attained a height of 30 ft, with a diameter of 4 ft. I found one of them growing near one of P. monticola at a lower locality, and as they seemed of equal age the difference in bark was noted. The albicaulis had finer furrowed, thinner bark than the monticola.

On the slope of Gray-back a high peak in San Bernardino I saw a pine in most respects similar to this No 2, but this ones as I remember seemed them in the top of the trees, more larger and often fruited. All the trees

shapes of the region call this "flexilis" being taught so by Balander & Kellogg - before your late separation of the species.

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In the oak also I enclose
(an old cone bored by a wood-pecker)
specs of *P. tuberculata*? but with
more spiny cones. Trees small
bearing when so young that the
recurved persistent cones may
be reached from the ground.

Several groves of this near
Shasta, at about 4 to 5,000 ft. alt.

(In a peak near Castle lake
20 miles west of Shasta, I found
fruit (sp. small, depressed trees
of *Picea Pattoniana* (as Gray
has intimated me & call it.)
Keeping it yet finding specs
for them on, & omitted it gather
Over a ridge 3 miles farther
westward is a dense dark swamp
of Cypress. (No 8.) *Lawsoniana*?
This was visited by Hooker, who
much admired this Cypress and the
splendid *P. monticola* & *Libocedrus*
of the dome swamps.

Well. Now I wonder if in this coll. I have the P. Balfouriana. You see I have no notes on this species — except from your last letter wherein you say "I leaved cylindric cone, smallish seeds." which fits my No 1, as for as it goes. Whew! is that beautiful weeping pine so regularly distributed over the side of Scott, the much sought — for Balfourianas?

It is not No 2 for, "cones cylindric" prevents. Either No 1 is Balfouris, and I have still to find flexilis or the "much sought" is still to find. I know you will instantly be able to tell me upon examination of this package.

But if any pine is still concealed about Shasta I'll get re-discover it for I have a strong invitation to return, & mean to do so in two years at least.

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GEORGE ENGELMANN PAPERS

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MISSOURI BOTANICAL GARDEN GEORGE ENGELMANN PAPERS

4 ? Sept.

John Muir, California's most gifted child of nature, writes me that my No 1 is Balfour's, & in Dr. Vasey's "Forest-trees of the U. S." prepared from the Centennial Collection he says of the Rocky Mts. "P. Balfouriana" is in reference to P. Balf., a compact & pearose, and of very dark green color, is readily distinguished by its long branches which are heavy enough to bend down." Just the description of my No 1, Ed is it must be Balfour!!

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Vasey adds "It is thought by some that the [illegible] of Ore-gon which has been described under this name is a different species."

Now if this is Bolf's fruit as I said the grove I know of is full-fruited and fine clean tho' the seed is valuable, I wish you could see Dr. Gray and Prof. Sargent about it and learn whether any considerable quantity of seed could be sold; enough to warrant an expenditure of about $70. for stage fare & a months board at Dijon's.

I believe the seed is prized at 3. or 4 dollars per lb.

A demand for 100 or 200 lbs would pay expenses of a trip up there again and leave a nice margin of profit.

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Several years ago I was
asked many questions about
ed B. pine, & asked & get-ted
t at good prices.

I am so miled over the
prospect of this re-discovery
being a propitiatte one that I
can hardly get along & the
discussion of other things go out
in the sack to you.

(In the map down from-
Dipous by day-light. I found
vast regions of the dwarfed oak
(Nº 7,) This may be the same
I found years ago near Colorado
Big Trees, but does not (as
I remember,) bear nearly as large
leaves & acorns. But More
Specs I call, in Sept, those
in July (2.6th) I have seen
not much unlike the round
headed agrifolia of the Sac,
Valley.

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Only leaves & twigs of this I picked from the swift-running stage, in the night, going up, so I was hasty in selecting from different "No dwarf oak seem here except this sort" (which you call Q. depressa, but which looks so unlike the Atl. so-called, growing to quite a tree with large wide elliptical leaves back of Santa Cruz.

There, my dear Dr. I'll quit. Good Dr. Parry tells me there is a prospect of your coming with him to see our trees, cacti, etc, next year. He says you need the rest. I heartily second his solicitations and beg that you will come and let me guide you over the mysterious Cacti, the hybrid oaks, the splendid firs, and the hidden pines!

I must beg pardon for this poor writing for I am still suffering from sun-stroke & congestion of the lungs suffered when the mercury stood at 145° while hunting (successfully) on Bolander's Q. taphrina on the Mt. Coast range.

Yours sincerely J. G. Lemmon

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MISSOURI BOTANICAL GARDEN
GEORGE EASTMAN PAPER

Cal., 18

Postscript. Aug 10.

No chance to mail since writing last ☆ here are some more items.

I see by Prof. Sargents "Forests of Central Nevada" just at hand, that the "Fox tail pine" of that region is this very Pinus Balfouriana, but; (you see I can get in the way of using "hats" ☆ ?!?) in the description he gives, there is one wide departure from the appearance of mine).

She prints "Leaves short, falcate, appressed leaves persist for years. forming tufts of foliage a foot or more long at the ends of naked branches." Now that my branches of

Alnoda trees are not — "naked"
but clothed with either leaves
or short twigs all along to the trunk.
Nor does he mention the
long out-reaching and drooping
limbs. Also he says of the bark
"Bat of the branches smooth and
quite white." which fits
~~your~~ my No 2. (and the
branches of this are naked below.)
Can it be that his P. Bolf.
is my P. alba? I am strongly
inclined to think the writes them
because one of the most striking
char. of my No 1. is the dark
apple green hue. seen from afar. of
which he says nothing. Prof. S. adds
in a note that owing to insufficient
material at his disposal he cannot
separate P. aristata Engel. from
P. Bolf. Mm. Which is mine,
and what is his?

Dear me. What a study is this
of the tree! Now that I have a
free help I wish to go and see
some of these rare species and try
to help clear up some of the questions.
Can I help any on this, I think you?

Yours J. S. B.

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Sierra Vist. Oct. 27, 97.

My dear Dr.

Ans Nov 28'

Your favor at hand, & I am very sorry that the specimens sent you do not suit for want of labels. I did not think of all things when I sent them. Of course you want the labels. I have just ordered 30 months 7 labels printed by Harry Patterson & when they arrive can label with facility. About 2/3rds of them are full labels. If you will return such plant as you wish labeled I will cheerfully work them off when able. At present I am tired and sick. Yours &c. J. G. Lemmon

Santa.

POSTAL CARD.

WRITE THE ADDRESS ON THIS SIDE—THE MESSAGE ON THE OTHER

U.S. POSTAGE
ONE CENT

ST. LOUIS MO
JUN 6
2 P.M.

Dr. G. Engelmann.
(Botanist)

3003 Locust St
St. Louis
Mo.

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GEORGE ENGELMANN PAPERS

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Rec'd Sept 29
Ans Oct 1/19

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Sierra Valley Cal., Sept. 20 1879

Mr. Dear Sir,

Expecting to be called to return to Shasta to collect the Calif. I have neglected to write for old times sake. Enclose I send there a few lines. I had hoped to remain with no orders for seeds.

Had mail. I number I owe a **drawer**, anything but a retiring disposition. I have hoped to remain and look after the interest you placed upon them & me also. Judge the object question.

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Dr Mearns writes I have been sick. Could not look at anything & since, and now cannot do much.

I had been putting up plants for you and for Prof Eaton.

They are selections of my best. Some are poor and mere scraps but the best - & few. Many plants in the Coll. I shall never see the like & collect again. Some of mine and not best-named. Perhaps also one-families. You see I can't - yet - omit all the critics for I suppose you have them all. Then all this stuff I am sending you known best. Occasionally a printed label appears.

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I trust you will remember how terrible the climate and how routine as exploring. so have charity for your work.

I am all anxiety to see the rest of our Cal. Bot. I imagine the 1st Vol. will have to be much changed. It is only a feeler thrown out for practical botanists to bring their work into common with.

Of course you are back home. and now resting.

If there is anything in this package that you much notice please describe the plant briefly. I have gotten an infusate: use hot water also especially. Of course have both of the same in my herbarium.

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Am just off for dam-
Francis & but for work
that's engage a young
horticultural & family
paper. taking note among
gardens & such work, my-
thing that health will en-
able me to do. Shall return
in a week or my way, whether
I find work or not, then
hope to return for winter
work.

Shall write more anon & tell
many things not- you by
this mail a few will
interest you and probably
require you for funds kindly
handed to me

Yr ever

Faithfully Yours,

J. B. Lemmon

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Sierra Val. Cal., Nov 18. 1879

My dear Dr.

Your last favor catches me very busily preparing for an early exploration of the great desert region to the north and west of me. The generous enclosure of the "X" is most welcome as money was never so scarce here. and with the "X" I can obtain many much needed things.

I dont see how I can possibly devote another day to wading through snow for conifer specimens. Of course I knew that all my pines and the specimens sent, would only cause you to reach after me with a few more dozen of your grab-hooks!(??)"

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You are the most exacting writer of all my acquaintance. — that is, you demand exact and careful statements and thereby you arrive at such careful deductions. I had I leisure and means & strength, I would love nothing better than to print for you all possible data. But Alas! I have neither! I have worked hard & closely all winter putting plants into sets, only to get a few offers, hardly paying for printing labels. I am back out of pocket agreements & I am the sufferer.

I am rejoiced that you desire a set of my plants, and will forward the first part of them (all I can prepare this season.) as soon as you repeat your request, which I hope you will do immediately.

I have a set selected for a customer who recedes from

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GEORGE ENGELMANN HERBERIA

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agreement (want of means) which is carefully selected from the first Orders & Compositæ. including all the new things of those orders that I may have. In the 7 species now represented in this set so far is 140. I will add a dozen more and then offer you the lot for $15. Next winter early. I will finish the examination and distribution of my herbarium & hope to have over 200 more species for you. besides what new ones I may get this season.

I enclose the Gallinsoga. The specimens are all fragile. Dr Gray says he will describe soon.

A thousand thanks for the Abies leaves. I'll mount them for references. and study next winter.

The warm, languid days of spring are here and out-door work demands attention,

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GEORGE ENGELMANN HERBARIUM

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I do not know the appearance of the female fls. of Libocedrus if I sent you a barren bough. It come from amidst a tree of fully laden last year.

Yes. I have noticed what you say about pine cones separating transversely & leaving the base persistent. It is a character of P. ponderosa. The cone always comes off with the cone. Only the basal scales remain.

Yes. I can & will send you a handful of Juniper berries soon.

The bark of the ponderosa that becomes broken into large plates is always thick. I thought that would be infered, so omitted.

On the cent. spec. it was 3½ & 4 inches.

From the glaucous twigs of certain trees I cannot believe the full-grown "swamp-pine" with black twigs can be the same. As I told you. The characters are not permanent, If I had thought you or any one else cared for such close points I would have looked them out by tracing saw-logs back from the mills into their true homes. But I did not suspect any such "??" as yours, especially since Hooker & Gray gave the tree the keen scrutiny of their practical vision when here.

Of course you know the ponderosa on the edge of forest or out alone in the fields is greatly changed in form & character. It was from such trees that I secured the glaucous spec! sent you. Though I know the same (young) occur in little groves everywhere. If possible I will get some twigs of the black swamp pine & the high, symmetrical "bottle brush" var. from near Webber lake. But I am already sadly over-worked with no one & half a care for me.

By the way both Dr. Gray & Dr. Parry speak feelingly of the dangerous illness of your only son & of the death of your wife. Please receive my condolence & regrets.

You may expect something else soon.

Yours. ever. J. G. Lemmon.

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Rec Dec 8
An — 16

J. G. LEMMON,

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Sierra Valley. Cal., Nov. 30 1878

My dear Engelmann,

Returning from a trip to Oakland room-hunting I find your valued favor of the 20th. Many thanks.

I removed with the best furnishing my herbarium this season to the wealthy and aristocratic city of Oakland, for the winter at least. Though I cannot afford this measure yet it seems I must do something of the like to have my plants where they will be seen and bought or also to be where I can earn a dollar occasionally with my pen. The good times which seem to be fully restored in

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GEORGE ENGELMANN PAPERS

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with [illegible] and a long [illegible] of the Pacific. [illegible] [illegible] [illegible]

& Fr. Gray as the head [illegible] of a long [illegible] [illegible] which Gibson knew, and which I was going to forward specimens of. Now it seems he has [illegible] [illegible] [illegible].

On a peak overlooking Castle lake near Shasta I saw peering up through the snow drifts the shoots of what I suppose to be Pattoniana. Here named on cones & by Dr. Gray. But Gibson refers a failure of conifer fruit in all that region this season.

Now for wild rice. Grown and characteristic of all spruces — the persistent leaf-bases. I had noticed it in my first collections 8 years ago, but one year follows hemmed in one little state with no chance at foreign herbaria cannot tell what is distinctive. I expect to visit Shasta again next September &

if at all able to crawl about
you may expect the long-lost Brewer
spruce will be rediscovered

By the way, it seems to me
that we, to find may fill the
mention in your description of the
conifers for all that I have
done, and feel this honorable
mention is our only reward for
weeks and months of perilous toil.

The first, well-fed & well-paid
first explorers of this coast while
hunting for gold or square stum-
bled upon most of our flora
which they had the wit to prize
and preserve. — and lo, hundreds of
the prettiest plants bear their names
and names.

But there! I beg pardon again.
I have been without sleep for several
days am exceedingly nervous and dis-
tressed to death, but have only
myself to blame I might have taken
the rebel oath and gone out of Anderson.

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(2.) Cal., Nov 30 1879

I am the hurry of my preparations for removal, omitting all our Locust Course &c. I have had time for but a cursory look through the extracts from the forth-coming Cal. Bot you kindly sent me. (Oaks Pines &c.,)

I am very glad that you confirm Newberry's determination of Kellogg's oak, thus giving just how to Californians "indefatigable pioneer Botanist". Also that you retain the good Doctor's Q. vaccinifolia as a var.

In the same direction it is hard to believe that the little fine-stalked stunt oak I sent you from Shasta is only a form of the large, fine-leaved, majestic tree (Q. densiflora) I have seen, always arborious, near Santa Cruz.

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Coming to the Coniferæ Plum!
How now do send the old names
reeling! And what new arrange
ments. What horrible names our
Douglas & Lambert firmness dear!
I fear I can never render them
popular with my young friends, let
me talk as never so (Veitchs totally

Coming to the pines I'm sorry
you did not (as it seems it might
have been done with propriety.) place
our noble mammoth pine (Lam-
berti) at the head.

I'm glad to see in discarding pon-
derosa that you drop Benthamiana; but
I think you do not present quite enough
characters of var Jeffreyi. The young trees
as far as I have been able to travel, can always
be distinguished by the smooth, white bark of
the annual shoots, resembling P. Lambertiana.

Please send packages & letters to me
at Oakland. Harry Patterson has
just printed for me 3 4 dollars worth of labels.
so I can get to work upon promised sets.
The $10. you propose to send will be very op-
portune in defraying expenses of my new but
necessary venture.

Yours ever.

H. E. Emmons.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

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Rec Jan 24
Ans Feb 19

J. G. LEMMON,

Sierra Valley, California,

Amateur Botanist, Lecturer, Microscopist and Collector in Natural History,

—AND DEALER IN—

Seeds, Bulbs, Roots and Dried Specimens of Rare California Plants;

—ALSO AGENT FOR—

The most popular and useful Microscopes, Telescopes, and their furnishings, Scientific Books, &c.

508½ 13th St Oakland Cal., Jan 16 1880

MISSOURI BOTANICAL GARDE
GEORGE ENGELMANN PAPERS

My dear Dr.

I mail to-day the plants returned for names some with labels accompanying (printed since last winter) the other labels enclosed.

Have been sick and much distracted so could not do the work before - also there may be errors.

Am selecting (as you requested.) another lot for you along with 12 more orders.

Send a full set to Dr. Gray (as brought.) for a Paris botanist. & 60. to Henry A Patterson for printing.

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Hope you have forgotten my naughty remarks in a recent letter. & that you and Dr. Parry will do me the honor to visit me this season in the high Sierra.

Am down here for the winter only. with a large lot of my plants making up books for sale & putting sets into herbaria also as desired. Have to make expenses. Have to keep so close to the drudgery of distribution that I cannot go out at all & avail myself of the privileges of the city. nor which I regret more. Can & go over to the museums to study.

Hope to be better fixed another winter. Trusting that you have will entered upon a hopeful year & hoping to hear from you occasionally I remain

Yours &c. J. G. Lemmon

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St Louis Nov 1st

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Mt Graham 10000 ft

(Elevation 4833 feet

Fort. Grant, Arizona. Col. El. 50

(Elevation 4,833 feet)
(" of Mt. Graham 10,000)

My dear Dr.

Received your valuable favor at Tucson. Could not go out to the Santa Rita, had not provided myself for expensive side-excursions. Went down to the R.R. terminus collecting at all stoppages. Then returned to the new station of Wilcox & thence northward & thus [illegible] for the purpose of ascending Mt. Graham of which I had heard much. A company of officers joined me & we were two days gone. A large forest clothes the [illegible] while a rich vegetation carpets it—mostly [illegible] now or frosted. I observed and collected with great diligence, giving myself

& he led back by a soldier while I returned by a long (10 mile) deep, dark, rocky and densely bushy ravine. Arrived at the post in the night, worn, torn & thoroughly tired out but feeling triumphant.

Let me report briefly the results of observations.

On the streams where they sink into the plain occurs a Celtis, a Morus, a Platanus a mesquite
on this, a scrubby oak (Q. agrifolia ?) and several shrubs. About 1000 feet up the Mt occurs more of the oak, on the dry ground and an alder in the streams. Soon after, Juniperus pachyphloea with its parasite, and Quercus hypoleuca in beautiful red-veined leaf. At about 2,000 - 3,000 ft occurs Q. griseo continuing & the Mt. in varied form & size, & with full fruit.

At 5,000 ft comes a few bushes of the Q. reticulata with larger ones along the streams.
5000 feet about the foot of the [undulata var gambelii ?]
On the Mt is Q. cobata turning red with the fruit. Old acorns seen.

Pines. At about 3000 ft comes in P. edulis cones expanded & seed gone.

At 7,000 P. Chihuahuana. with 3's in threes & fours. Cones green. ovate. 2 inches long.

Only two bearing twigs found: on one tree.

Near summit P. strobiformis. 5-leaved. cones large. 6-8 in. ripe scales reflexed. seed gone.

On the summit another 5-leaved fine wild & now take it be your P. Arizonica. I climbed

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several trees only & find small cones to robbed of their seeds by some animal that crushes the scales. Afterward saw a yellow parrot flying from tree & tree & believe it feeds on these seeds some of which may be serotinous. Expecting & find other trees with fruit & passed on & return another way & leave the question of whether this is P. arizonica unsettled!

The principal tree of the forest is P. ponderosa but the ponderosas have been often cut for lumber for the fort & reported very good. Also the trunk seldom forms a clean bare log. limbs starting out from near the ground.

An Abies occurs on the summit of two shades of color — olive green & glaucous, leaves with small cones just separating & inside & not twisted at base. I enclose specs. It closely resembles A. concolor bark white (or gray ish) & the same irregularity of limbs in old trees. Have saved & tied up a cone for you if you wish also a piece of bark. It puzzles me because of the leaves not being twisted. Trees often large (2-3 ft) & tall. (100-150 ft)

Douglas spruce occurs in magestic beauty 3-5 ft. in dia. & 100-150 high all in full fruit, with small cones. It approach & the var. macrocarpa of Jun Bermudiana.

The alter Juniper — occidentalis comes in on the summit. ~~with~~ in rocky ledges, with its Arceuthobium.

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On the summits along streams occur the aspen poplar, two or three willows, an alder, a maple - and the goats beard. — Spiraea. the latter often straight as an arrow and 7 - 9 ft. in shaft.

Also the Ribes viscosissimum very thrifty. Most of the herbs were passed & gone, but I secured several new to me, and also several ferns. both herbarium specimens & rooted plants - bringing ~~them~~ the latter down in a bag slung around my neck. I hope for a new species. Several are new to me. I have 3 bales of plants & am very well satisfied to return tomorrow to Oakland & bury off my pets. You shall be remembered with anything desired.

I have arranged to have sections of the P. ponderosa & of the P. reticulata obtained and forwarded to Prof. Sargent.

Also I am hoping for a collection of seeds of the Douglas spruce & the P. Californiana if more can be found. The authorities are very kind & helpful. Dr E. L. Greene acknowledges letters from you & Prof. Sargent, & he will write you both soon. Is quite interested & will answer all demands — seconded by the authorities here.

Found your Heuchera sanguinea here. Am so tired that I cannot hope to be able to distribute soon. Go up immediately to Sierra valley & bring my matter & live with me at A. this winter.

Am so sorry about the P. Arizonica.

Hastily but very cordially Yours. ever.

J. G. Lemmon.

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Rec'd May 19
Ans. June 9

El Paso, Texas, May 14, 8[illegible]

My dear Sir,

I am with great regret that I am suffering from an attack of rheumatism [illegible] I received your last- made a long visit to Rev. C. L. Pierce, that unfortunately [illegible] I am to the South Carolina and Atl. R. Railroads was the principal object of my visit. Various forms of the disease [illegible] I believe I am [illegible] I am [illegible] I [illegible] I [illegible] I

Missouri Botanical Garden
George Engelmann Papers

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Rec'd June 20
Ans — " 21

Please reply earliest convenience addressing me at Oakland

Sierra Valley, Cal,
June 12. '80.

Dear Dr,

Came home yesterday for a brief visit. Before leaving Oakland we despatched a package of plants to your address but was prevented from writing up the notes to accompany.

Next week we go out to Salt Lake for a few days, then by end of month will be back at Oakland to rest while the rains descend on the southern deserts.

Expect to go down south again in Aug. What can we do for you?

Sent you box of a variable pine from summit of Santa Catalina. Do it the Pinus Arizonica? With the package just despatched is a twig. Cones are in prospect if desired.

We met with Mr Pringle often, around Tucson, and cannot but admire the conscientious, pains-taking & thorough work he is doing; a work that his good health, strong frame & clear, cultivated intellect qualifies him so amply to perform,

On next page is a list with notes of a few of our plants sent,

Mrs Sprg little mother & enthusiastic botanical wife join in continued profound regards,

Yours ever. S. G. Lemmon

Plants collected in S. Cal, Arizona
New Mexico, W. Texas April & June of 1881
by J.G. & S.P. Lemmon.
Submitted June 10th 1881.

No 302? Opuntia Whipplei 5 ft high, branches horizontal, fls red, fruit yellow, Mt Bowie Nov 17,
" 303? " vaginata? Santa Catalina Mts May 18
" 304 Cereus stramineus 2 sp of Organ Mts E. Paso Tex,
" 305 Opuntia arborescens near Sta Catalina, May 12
" 306 Cereus dasyacanthus summit of Sta Catalina Apr 30
" 307 " Roetteri N. Dak " " " " Apr 28
308 Echinocactus horizontalonius Summit of Organ Mts, Tex, May 16,
309 Cereus Engelmanni var. inermis " " " "
310 Mammillaria barbata var. Dos Cabezas, Chiricahua Mts,
N.B. Always soft in texture as if wilted,
each of a dozen specimens has some, with May 27,
its bundles of spines easily separating from tubercle,
311 Cereus undulata, var. Gunnisoni Forms a thin grove
of small white barked trees on the north May 28.
slope of Dos Cabezas, Chiricahua Mts,
316 " undulata var Cracle Camp, N. side of
Santa Catalina, Apr, May 12
315 " Emoryi Cracle camp, " " "
317 " Engelmanni! Helen's Dome, Camp Bowie, Nov 17.
A low dense-limbed bush on the summit,
32. " Grisea? Dos Cabezas, May 25,
322 " Oblongifolius (white) " " around a spring,
318 Prunus Capollin "Capulina, Sp." Tree 1½ feet in dia,
and 40 ft high, (with the preceding,)

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No 3. 9. Platanus Wrightii Chiricahua Mts, May 22.
Is this P. Wrightii?

320 Yucca Whipplei Torrey Summit of Sta. Catalina Mts
Leaves variable; May 28

314 Pinus reflexa N. summit Sta Cat., May 27.
Abundant & large enough for fine lumber,

313 " Arizonica, composing the bulk of the forest
of thousands of acres included by summits
of Sta Catalina — a fine deer park.
Cone variable 2-5 cones bark & manner
of growth very variable & resembling in
all respects the P. ponderosa which it
take the 5-leaved form & the 2-leaved
of. Have the cones also in herbarium.
No doubt Mr Pringle has long since
settled the question by abundant spec.
forwarded you with his notes.

321 Agave Poselgeri South foot-hills & side of Organ Mts
north of El Paso, May 18. Plants
abundant, small, close set, only a
few of them flowering. Stalk 6-8 ft high
Spike 2-4 ft, pericarps obovate, 1/4
inch long, seeds small, black.

In this connection I may about to send you full specimens with notes of the beautiful, fragrant yellow Agave Schottii from the Santa Catalina (which I collected leaves & pericarps of last season & showed you in my herbarium,) when Mr Pringle informed me that he had supplied you.

I brought home a stock of plants & have just put into the hands of a florist. Hope to find a sale for them.

~~No 322 Populus~~ Foot-hills S. side Sta Catalina

~~Wood s.~~

No 323 Populus Fremontii Abundant along the Rio Grande
& streets of Franklin, Tex, May 18,

323 " Fremontii Stream bed. S. foot-hills Santa Catalina Ariz.
April 8th A large tree,

324 Fraxinus Americana Growing from the large trunk
of the Pinus ponderosa in the deer
fork of Santa Catalina, refered to, Ap. 30,

325 Celtis reticulata Along streams of Santa Catalina, Ap.

326 " " " " Chiricahua, Mts, May

327 Quercus perpallida Santa Catalina & " "
Buckley but small
very excellent fruit in May 27,

328 Arbutus Canjolia Santa Cat, & Chiricahua, &c,

329 Melia Azedarach Along streets of Franklin & El Paso,
"Umbrella tree" May 18 in flower,

330 Yucca macrocarpa I suppose your macrocarpa. Abundant
on north foot-hills of Sta Catalina, I
collected leaves last spring (80) but
omitted to get pericarps &c, A good
find for you in the Santa Rita, De
Cargo & district. The broad leaves
narrowed above the base, the latter not so
deeply red colored. No filaments &c.

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

When we return to Oakland will investigate the
questions you raise about Carex Kelloggii, Eschscholtzia
herbacea &c, Have always had the impression
that the roots of the latter were perennial.

We hope you are fully recovered from your
late attack of rheumatism, & are well & happy.

Yours Cordially J. G. Lemmon

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Rec'd Oct 25
ans — 27

Ft. Bowie, Arizona Ter. Oct. 19/81.

My dear Dr Engelmann:

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

During a three weeks protracted stay in the vicinity of Camp Rucker, I made many long and laborious trips of the most active, beginning; by the merest accident — on the last trip — I contracted, neuralgia and remittent fever followed. We were rescued, at last, and had a terrible ride in an Army wagon for twenty three miles over very rough roads, which increased the fever and weakness and also, nearly broke down my wife. The following day we hired a spring wagon and rode into Ft. Bowie — twenty four miles, where we are having every attention, but — the prostration was so great — that absolute rest — is

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necessary. He took, however, to start out for Oakland in a few days. I am unable to write ~~but~~ so have requested my wife, as nurse, & she may amanuensis for, before we leave here, I wish to tell you about a beautiful Cypress tree, which I have found, specimens of which I send you.

We have heard that you are again troubled by that physical enemy - inflammatory rheumatism. Too bad, too bad! - but - we trust - that if not fully recovered you are on the way - and that thus, you may be able to work - as you ~~do~~ fondly incline, in the beloved science.

Accept the united and continued, loving regards of yours truly,

J. G. & S. A. P. Lemmon.

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Lemmon Herbarium.

Rec Dec 12 Oakland, Cal. Dec. 5, 1881.

ans — 12 (— Ship Dec 10 7 P.M. 12 M

Dear Dr. Engelmann.

We have been looking anxiously for a report upon a package of plants sent to you in June. We sent you a letter at the same time with as full notes as possible in reference to the 30 species collected on our early spring explorations in Arizona. On our Autumn trip we worked very hard and endured great hardships & exposures. Something of which we have told you from time to time since

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our return we have been and are entirely occupied with our large collection of plants. The season was unprecedentedly fine. owing to the copious rains, and I assure you we "made hay"

Enclosed are some leaves of an interesting Yucca found in Apache Pass near Fort Bowie, Arizona. This Shrubby plant was about 4 ft high. It had no fruit - but seemed to be doing well in its bed of lime stone rocks & soil.

We hope that long before

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this you have recovered your
usual standard of good health.
that the ugly rheumatism has
been stormed and driven away
forever.

Mr. Lemmon joins me in
sincere regards.

Dr. Parry & wife left us for the
South. Gal. last week. We shall
miss them too much. We all
went to Monterey two weeks ago
by special invitation from John
Muir, to see his arctic plants
and hear his adventures and

interesting story of his trip on the Corwin - in search of the Jeanette He found his collection quite interesting - of course everything looked stunted to scraps - as compared with the tropical fullness of Arizona flora -

Again uniting our regards before and yours truly,

Wm. S. A. P. & J. G. Lemmon

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GEORGE ENGELMANN PAPERS

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Ans Dec 28
Ans Jan 4

MISSOURI BOTANICAL GARDEN
GEORGE ENGELMANN PAPERS

Oakland, Cal. Dec. 20, 81

Dear Dr. Engelmann,

Thanks for your kind favor of the 12th inst. It finds me recovered to my usual state of health and very busy; wife also.

Glad to learn that the Lycopods proves of so much interest. The name you propose, tho' long & unemphonious, is quite descriptive of a prominent feature — the red bark — but I mis-read it "corythrophloea" in a card from Dr. Parry & was considerably exercised & puzzled over its meaning.

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My wife wrote to Dr. Parry expressing regret that you did not name it for me since I had done so much to secure full specimen. and also gave full notes, &c,

All this was before me when (as you know yourself nothing from me.) that the species was the same as that collected by others, & supposed it was distinct from all; hence the action taken,

Of course when so many gather it nearly contemporaneously any personal name would be invidious.

Unfortunately we find but few good seeds in the lot I collected at such cost, I have put into the hands of a careful florist of D. C.

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I described the Cypress at length as C. Arizonica, Greene, along with the Platanus Wrightii and the two Pines P. Arizonica & P. reflexa lately before our Cal. Acad. of Sciences. The paper is published this week. Will send a copy.

Glad you did receive the wood specs.

Glad also that you desire a selection of our rare and new things from the Chiricahua Mts. After the present pressure for holiday work is off. me shall set to work distributing our few ~~demands~~ orders.

Our late collections are so rich in rare things that Dr Gray kindly consents to stop regular work and

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publish them in a special paper. He also consents to my describing a few easy things.

Have just published a little work on which I've taken much pains. "Ferns of the Pacific Coast" (a copy hereunto.) There is so much inquiry as to localities & such stumbling over the scientific names that I've tried to assist to popularize this family of lovely plants.

I'm very sorry that in our hurry & trepidation a mistake was made in my wife's last letter. Your letter with determinations was duly received.

We are terribly over-worked again, trying to make up herbarium books & sets of plants for sale. Much hard work & little pay. We must find some other work to do keeping still a firm hold on botany.

Wishing, both of us, a Merry Christmas & Happy New Year

I remain. Yours ever D. C. Lemmon

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Rec Jan 23
Ans Jan 28

Oakland, Cal, Jan 14 '82.

My dear Dr. Engelmann.

Your favor of the 4th inst. is at hand. Many thanks for the determination of the Fountain, & for items on the byprep fam.

As you say it is strange that so few specimens of E. are collected by local botanist. You have seen only a few of our species growing. I have never met with the so-called E. Gouniana.

Frequently we meet with ones that are smooth and round as bullets of any species in cultivation.

I can see the bases on the cone and the slight other differences longer separate macrocarpa, MC Nabiana & Gouniana? I can distinguish all the E. Guadalupensis except to be distinguished by it (according to description.) pendulous branches and excoriating trunk.

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Our Arizonian has always erect or ascending branches except the few upper-most which gently curve outward. None are "pendulous" Perhaps the most distinctive character is that you have been told so much about, and which my section reveals — the heavy-barked trunk and bare limbs

I shall take pleasure in sending a copy of description of "4 Rare Trees" of Arizona, as soon as published. The pressure of holiday work has delayed both that paper & the description of this Section.

I shall not often trespass upon unknown ground, but in this case the plant seemed sufficiently distinct from any descriptions given in Dr. Gray's Synopsis that and so I ventured to describe.

Of course I know that none of us on this coast can describe any plants with absolute certainty. We only grope at them, at best. No one, much less, no institution

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here has the requisite literature and herbaria for reliable work of that kind. It is best that we keep & collecting; always forwarding our plant & parties who are specialists endowed with special advantages.

By such descriptions as Dr. Kellogg has given in former years, and as Mr. Greene, Jones & Co are now doing, we only encumber the science with useless synonymy.

That "Conspectus of Pacific Ferns" is full of errors despite great learning and is only a basis for future work. In matter of edition & hope & correct errors of description and & give full analyses of each species, besides more notes of localities &c.

My wife is hard at work with a class of 20 ladies studying ferns. She and myself Both are usually well and extend congratulations for your recovered health.

Yours truly.

J. G. Lemmon.

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GEORGE ENGELMANN PAPERS

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GEORGE ENGELMANN PAPERS

Rec'd Jan 27
Ans Feb 28

Oakland, Cal. Jan. 20. '82.

Dear Dr. Engelmann,

For this month the Botanical Gazette, has just come to hand and the reading of your Notes on Western Conifers gives me great pleasure.

I'm very glad that Pinus reflexa, P. albicaulis & P. Jeffreyi are going to stand as good species.

I am not astonished that the Abies nobilis is restricted from covering the Shasta fir. That form has all along seemed identical - except in the bracts — multi ours of the Southern Sierra.

I'm doubly sorry now, that my description of the "Four Rare Arizona Trees" has been so long delayed in publishing Perhaps it might aid you.

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I see you promised me a full account of its observations of the Forestry Commission, soon, I hope & receive a copy.

We are busy as ever, but so often interrupted that we can do but little studying - except in ferns. We have several classes & enjoy them much.

In the description of Wood sia Plummerae, in Bot. Gazette, for "gland-tipped leaves" in third line, read "hairs." a printers blunder.

In the Catalogue of Rusby's Plants of New-Mex & Arizona just received there occurs a Gentiana Rusbyi - Greene.

Have you seen the plant! Can there be two species

in that locality?

I have a figure prepared of mine which will be called G. microcalyx, x the publication for next week.

We do not yet hear from our Graminea sent long ago to Dr. Thurber.

Our Carices have not yet gone to Wm Boot on account of lacking his exact address, for which we have repeatedly inquired.

My wife is busy just now painting wild flowers.

She joins me heartily in kind regards.

Yours truly

J. G. Lemmon

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GEORGE ENGELMANN PAPERS

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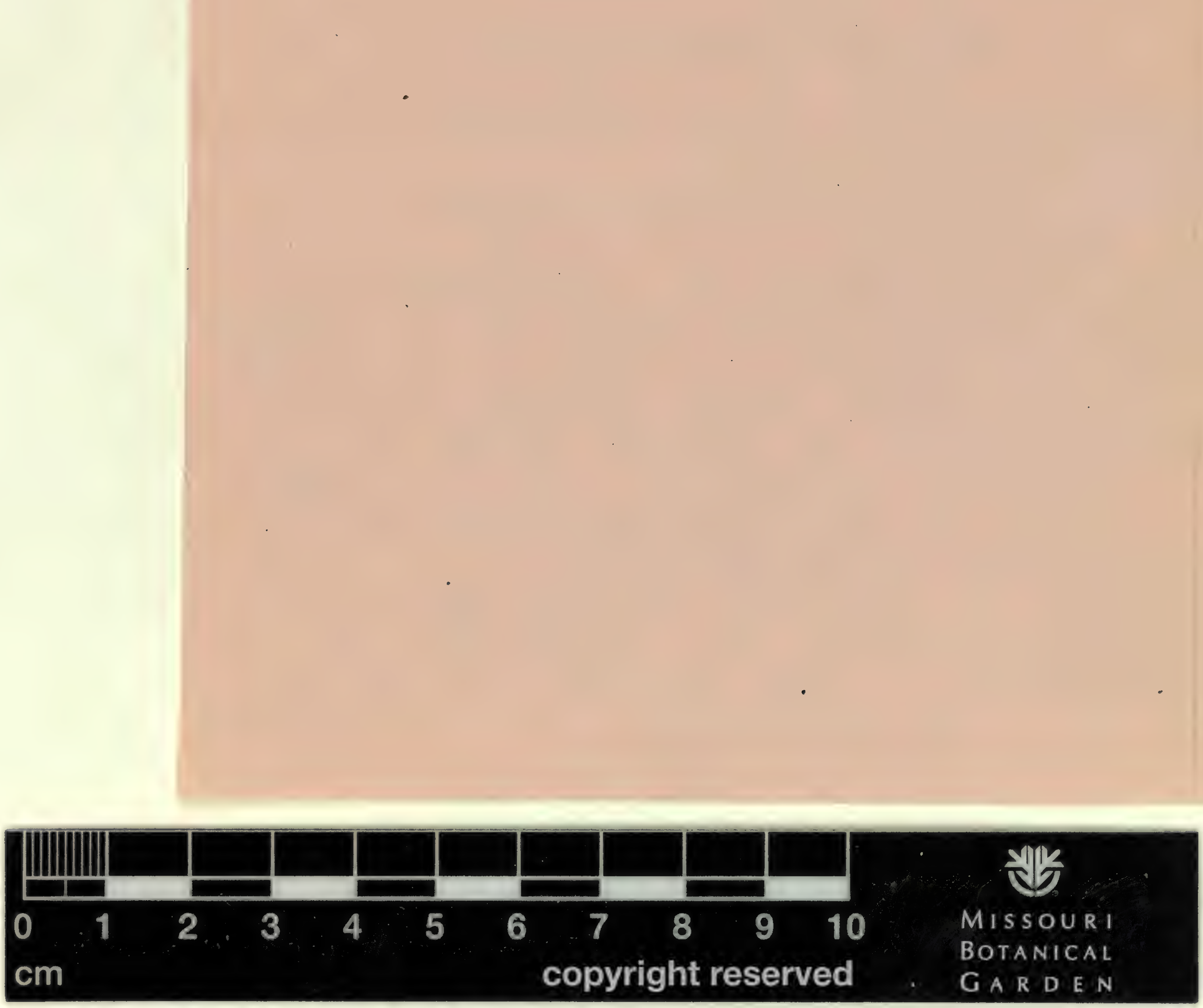
Sun May 11

[illegible]

[illegible]

[illegible]



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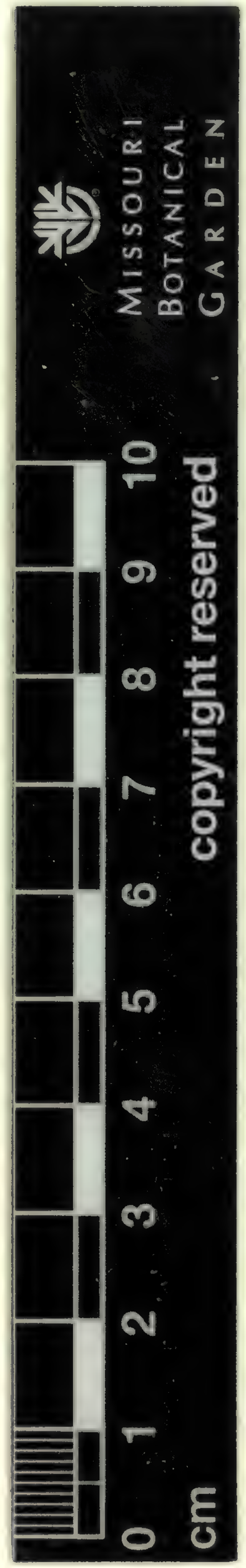
GEORGE ENGELMANN PAPERS



Rec June 19

Fort Huachuca, Ariz.
June 13. 92

My dear Dr. Engelmann.

Your favor of May 11. followed after us from Oakland, & has just arrived.

Many thanks for it and for the $5. enclosed. Am glad the spec. pleased you & despite the fact that they were "not rich bot". We could not do better with them.

Now note an error. "Genera Nevadense" for Daniauda Nevadensis.

While very ill a lady friend assisted my wife in labeling; hence the error. After our return this fall we shall over-haul the rest of our plants after Compositae and then you can have a selection if you desire.

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GEORGE ENGELMANN PAPERS

Being still quite weak I've not climbed much yet here. but as strength returns I hope to explore quite thoroughly this range of Nats. 70 by 20 miles in extent. The oaks ~~are~~ three fine are 2. Emoryi. oblongifolia. & hypoleuca. The pines are P. Chihuahuana). edulis. & ponderosa. Other trees are Platanus Wrightii. Fraxinus coriacea. Juglans Cal, Arbutus Menziesii. Cercocarpus ~~fo~~ parvifolia. & Arctostaphylos tomentosa. Of smaller showy thing are Aquilegia chrysantha, & Baltora rosea. Bouvardia hirtella. Asclepias Wrightii. Pentstemon barbatus and the curious Jatropha macrorhiza. &c.

Also please accept warm thanks for your heavy article on the "Isoetes genus." How little we knew of the plants before, and what pains it has required to make that treatise.

We have to keep mostly in the shade now & cannot explore much until after the rains. then will try to be diligent. We expect to remain until last of Oct. If you desire us to look after anything in particular. we should be happy to be of service.

My wife joins in continued regards.

Truly yours.

J. G. Lemmon

Rec June 7th

1206 Franklin St
Oakland Cal,
June 1, 83.

My dear Dr. Engelmann,

Your kind note of inquiry was duly received but I have delayed writing because I wished to get the things you inquired for, in vain.

Diphtheria has kept us all prostrated or at least distracted from work for most of the time this winter. We had 43 sets of ferns & 16 of phanerogams ordered & to write the labels for so many flowering kinds of plants tired us out

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MISSOURI BOTANICAL GARDEN

The ferns (over 70 species)
keep on until April.

At once me, attacked an
immense store of Phoenogams
& got through & the end of
Compositae a fortnight ago
today & finish all before
breaking up, but in rain.

We must stop & rest off
for the season this kind of
labor, perhaps next week at
the end of Leguminosae.

I went over & the city
and I coursed around among
the low places about the old
cemetery but failed to find
Lomatium Kelloggii - as you
figure it I enclose a
spec of the only one found.
Was too ill & weak to
gamble much.
Of the Segueria Gigantea
I cannot get ones this

season, shall not perfumean the groves, and the trees planted here are not bearing yet ~~that~~ I more of.

I, N. Hutchings & Co - Semita, might supply your desiderata, he is the Guardian of the Valley × a very obliging gentleman.

Among our novelties for the last season are 80 new species and as many more before published. Several of them I detected myself, including a new Stevia (S. amabilis) Phoma eumerifolia and others.

Dr. Parry & lady often call upon us. He tells us that at last accounts you were quite ill and were about to go to Europe.

We trust that the trip will restore your health & return you with vigor sufficient for many years useful work.

We go up & my old home in Sierra valley & rest and recuperate a few days then prepare for exploring Arizona again after the summer rains.

There are several things I must do recollect. We found the Gentiana microcalyx in great quantity and a new shrub Fagelia. A Senecio 5 feet high and with umbrella leaves 1 foot across! Also a splendid Kalmiopsis 4-6 feet high, & Ribes sanguineum. Your request came too late this season. Will remember you next winter and will do best for you as many of other novelties as possible.

Yours truly, T. S. Brandegee